

# PLESIOCHRONOUS SYNCHRONIZATION OF REMOTE SUBSCRIBER'S CLOCK TO HUB'S CLOCK

## ABSTRACT OF THE DISCLOSURE.

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A method and apparatus for plesiochronous synchronization of an integer N plurality of subscriber networks to a hub network. Each subscriber network including a sub's clock, and the hub network includes a hub's clock. The method comprises the following steps: (A) broadcasting a plurality of control data from the hub network to each sub network; (B) transmitting back to the hub network a first sub's network ID number (sub\_id#1) in a first separate channel (channel#1) and waiting for hub's instructions to burst back; (C) bursting a set of data from the hub network to the first sub network having the sub\_id#1; (D) acquiring a hub frequency by the first sub network having the sub\_id#1 and locking a sub\_id#1 frequency on to the hub frequency; (E) re-adjusting the sub\_id#1 frequency so that the sub\_id#1 frequency is substantially equal to the hub frequency; and (F) repeating steps (B-E) for each 'i-th' sub's network having an 'i-th' sub's network ID number (sub\_id#i); wherein integer 'i' is greater than one and less or equal to N.